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14. (New) A single frequency weather station RF Telemetry alarm and display station for monitoring weather conditions at at least one remote location comprising:

a portable, battery-powered and hand-holdable weather station unit situated at the at least one remote location including:

a microprocessor;

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at least one data sensor coupled to the microprocessor for generating a data signal representative of weather conditions at the at least one remote location;

a transmitter coupled to the microprocessor for transmitting said data

an antenna coupled to the transmitter,

and

signal;

a portable, battery powered and hand holdable weather station receiver for receiving and displaying the weather conditions received from said weather station unit.

15. (New) The single frequency weather station RF Telemetry and alarm and display station of Claim 14 wherein the data sensor monitors the weather data and wherein the transmitter is configured to wirelessly transmit a data signal, said data signal being representative of the weather data monitored at the at least one location.

16. (New) The single frequency weather station RF Telemetry and alarm and display station of Claim 14 wherein the data sensor senses temperature.

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- 17. (New) The single frequency weather station RF Telemetry and alarm and display station of Claim 14 wherein the data sensor senses wind speed.
- 18. (New) The single frequency weather station RF Telemetry and alarm and display station of Claim 14 wherein the data sensor senses rain.

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- 19. (New) The single frequency weather station RF Telemetry and alarm and display station of Claim 14 wherein the data sensor senses barometric pressure.
- 20. (New) The single frequency weather station RF Telemetry and alarm and display station of Claim 14 wherein the data sensor senses ambient light.
- 21. (New) The single frequency weather station RF Telemetry and alarm and display station of Claim 14 wherein the data sensor senses static charge.
- 22. (New) The single frequency weather station RF Telemetry and alarm and display station of Claim 14 wherein the data sensor senses humidity.

36

- 23. (New) A single frequency weather station RF Telemetry alarm and display station for monitoring weather conditions at at least one remote location comprising:
 - a portable, battery-powered and hand-holdable weather station unit situated at the

at least one remote location including:

a microprocessor;

at least one data sensor coupled to the microprocessor for sensing at least one weather condition and generating a data signal representative of the at least one weather condition condition at the at least one remote location;

a transmitter coupled to the at least one data sensor for transmitting said data signal; and

an antenna coupled to the transmitter,

a portable, battery powered and hand holdable receiver configured to receive the data signal comprising:

a storage device configured to store at least one of a plurality of measured remote weather conditions;

a processor configured to generate a prediction of a weather condition, the prediction being based on the data signal received by the receiver and at least one of the measured weather conditions stored in the storage device; and an indicating circuit configured to indicate the prediction.

24. (New) The single frequency weather station RF Telemetry alarm and display station of claim 23 wherein the receiver further comprises an interface configured to receive a latitude coordinate.

25. (New) The single frequency weather station RF Telemetry alarm and display

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station of claim 23 wherein the receiver further comprises an interface configured to receive a longtitude coordinate.

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26. (New) The single frequency weather station RF Telemetry alarm and display station of claim 23 wherein the receiver further comprises an interface configured to receive a geographic area latitude position.

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- 27. (New) The single frequency weather station RF Telemetry alarm and display station of claim 23 wherein the receiver further comprises an interface configured to receive a geographic area longitude position.
- 28. (New) The single frequency weather station RF Telemetry alarm and display station of claim 23 wherein the processor is coupled to the receiver and storage device and configured to generate a prediction of a potential remote weather condition, the prediction being based on the data signal received by the weather station receiver and at least one of the measured weather conditions compared to said stored data.
- 29. (New) The single frequency weather station RF Telemetry alarm and display station of claim 23 wherein the prediction of a weather condition is based on the received data signal and at least one of the measured weather conditions stored in the storage device.

30. (New) The single frequency weather station RF Telemetry alarm and display station of claim 23 wherein the indicating circuit is configured to indicate a temperature trend.

31. (New) The single frequency weather station RF Telemetry alarm and display station of claim 14 wherein the receiver comprises an indicating circuit configured to indicate a temperature trend.

32. (New) The single frequency weather station RF Telemetry alarm and display station of claim 23 wherein the receiver further comprises an alarm configured to indicate an alarm condition responsive to a comparison of the data signal received by the receiver with a predetermined threshold value.

33. (New) The single frequency weather station RF Telemetry alarm and display station of claim 14 wherein the receiver further comprises an alarm configured to indicate an alarm condition responsive to a comparison of the data signal received by the receiver with a predetermined threshold value.

34. (New) The single frequency weather station RF Telemetry alarm and display station of claim 14 wherein the receiver further comprises an indicating circuit configured to indicate a signal strength of the data signal being received by the receiver.